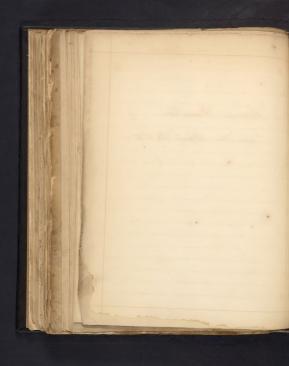
52

once inferture No. 9.

Thomas Hamilton

admitted March 15th 1820



The Disease concerning which we are about to treat is that which authors usually denominate Cholera Infanteum; it prevaus in vari ous parts of the world, and in different la. titudes, but in every Country 2 ages chiefly during the warmer Jeason of the year; in the Southern parts of the United States it gene. rally Commences in the mouth of May or close of April and continues with increasing priv alunce till about The middle of Seplember. or beginning of actober; from this time it gra anally declins tothe uniformly cold sean sow & ommunes, and This transition to a cool. or temperature though it prevents the origin of recent Cases does not invariably Cure protrain i ted on chronin ones; The subjects of the disease as its name imports are Chilaten whom ages generally wary from two months to two



Years yet those more advanced as well as some that are younger are occasionally affected by it; In a majorely of care the child attached, without giving my evident signs of pre. cious indisposition is seized with graquent putting, and about the same time or a few hours subser gent to it a purging common; from them two prominent symptoms which appear to constitute the disease, many others seem to aring among There are great thirst, auxily, restlepup, and rapid emaciation, shortly after the attack the features appear shrunken, the Eyes hollow and languin, and in Levere Cases if the child sleep stall it is generally with the Eyes half closed; the temperature of the extremities is below the healthy degree, but a degree of heat as great or greater than that which exists in a state of health may be uniform my porcious in the integuments of the head par. ticularly about the forehead; tet an early Stage The matter ejected from the Homach is



bilions, but some puts on the appearance of the food and drink and Such other things as are ta. hen by the mouth; The dijections are more dis versified in Their appearance; about the commence ment they are copious, liquia, and yellow, or they have a greenish aspect Resombling Mucus mixed. with bile, and in a small proportion of cause They appear to Contain blood, they sometimes en mit an offensive small, but whatever be their ap pearance at an early stage they uttimately of Sume a throng rescublance to the matter of scharges from the Homain; the Child often alleufts to such or eat but whatever is Taken aggravates the puking, the pulse is sometimes show but oftener frequent and obscure and allways a price rious source of indications; On some in Itames the put ing and purging, the depression, and a obsulp, rapidly increasing the patient exping within a few hours of the attack, but in a case les Violent many days may chapse before



death takes place, and if the can be still We swere and continue longer the putting of ter several days moderates, becomes partially suspended, and at length subsides leaverly an irregular lax the prominent symptom, The appelite returns and is generally throng The Child often craving the sattest flish as stirt, it is howen or subject to some variations, whenever the lan is least severe the appetite is most throng and every exceptor reputition of the Stomach is followed by professe discharges from the sowels and an agparation of other symptom; in this four or stage of the disease the emaciation is aft to be progress. in; these symptoms continue from a few weeks to a year or two, and in a greater number of instances count water in death if not opposed by appropriate 2 omedies; previous to death in these protracted cases the skin bear comes flacion and hange on the extremities like a loom : invelope and is sometimes penetrated by the bones, the hyd poeratic Countenance is strongly exhibited, The child is



proise on a wether and retirms much muscular thingthe At ill de ath; a little rel ne nis ment Some redrup is aft to appear in the Conjunctiva particularly about the uner angles of the Eyes, in I am one the net to avery is new suchanica, 6 on rectaine Size poles, Contortions of a und in our , and other I am of seen set rougi in their , non milly but a most it splean is a work a sy in a reflected vit ; Such is the asked of most cases, but it sometimes nakpens that the juking of som the first inconsiderable the purying being the most distriping symptom and more rarely that they allernate with each other, the Child I saw lines gives de you of pair in the bounds and perhaps as often abolics its hauxs to its he are . Shewing that part tobe the seal of pain, and worms are necessionally direction yes from the brevis; We should have dispensed with this services account of a disone from ilear To phyricians generally was it not That an immediate new of its leading bails seems newpary with identifican Tion and useful in sufferting obusions and defending a practice which as far as we know have not hitherto ob.



tainer, Similar Consideration, indum on to notice the carm, Concerning which can one oficinions have bun entertainer. That Worser have to again by in its presentation has infu from it attacking and distribuying Children at a Rage of life in which would are rank found a known to produce distributed afforming with which was alwayers with which affording either curing tipe or on dissection of the act hang profes of the can which worms are known to attend differing in her special point from those cause in which worms are known to attend differing in her special point from others.

we lafer from this fact that it often arise in the southern strain for them fruits at ourse, and when it is known that the sufferent have not need there is known that the sufferent have not need there is clear that it expenses not on Allestation for its Origin, yet this turber that on Allestation for its original was the descar more severe and obtited to that if a Chile



be attached during duration were though the can be mild and the puting in a few days subside, get the diarrhea with some variations in its violence will often Continue for a year or two, a similar aggravation it is proper to observe is aft to result of rom the eating of wid or vapion Vegilable Substances. The season of the year in which it arises together with many of its symptoms inclined us to believe that its cause how ever obscure in its nature is the same that prodenes bilious fever in adults; and that the discord are in fail the same a little varied in aspect by the peculiarities of infantile structure; the high feon the regular endeur botion and remissions of which author speak we have rarely observed and are not the symploms Sust alreaded to, whenever May do attend they Constitute Bileons feleranof le gelar type and should be so amouninated, in the Southern States as well as in Minorea and other places this fever in adults varies its symp.



Tour according to the peculiar habit of idiosyn. crasy of the patient and according to the parts Chiefly affected so that it personaly allmost en very desease incident to man; in Georgia the first Sensible operations of its Cause in a considerable proportion of cases, appear in the stomach produc cing intense nausea, frequent puking, coldnif of the extremelus, cold oweats, great thirst, frequent small pillse, and purging, all of which continue for many days, when if Eightly man. aged they to tally subside or more frequently papeints from of regular type; there are truly Ca. ser of bilious fever embracing all the epential symptoms of Cholera Infantim and in a Child would be so called, him we are are Thorized to believe the cause of tooth to be the Same and the diseases identical in nature. In what way, or in howmany different ways, regular fever destroys life con shall not here attempt to explain but con =



vicing the expression of such a question in relation to choice a newpory to the discovery of

relation to cholina, neeppay to the discourse of a rational and succeptual practice we must offer some observations action to the object.

The Cause of this as well as of many others diseases we imagine to abound in the atmosphere, but whether it is a simple elementary dubstance tet at liberty by the action of the bun upon the surface of the earth, or a now ious Combination resulting from the accomps. sition of Vigetable or animal, we cannot deter mini but believe it to be applied in a material form to the internal Coat of the stomach, where it makes its first morbid imprepious; adverting to the Saliva the art of deglitation and Respiras tion the mode of its application can be easily imagina, like Tartar Emiter and many poisonous butstoners its effects continue long after it is totally ejected from the from the storm ach, This or gow in the adult bulget is often so



insusceptable of its action, or the morbifu but Name is so gradually introduced, or so delute, or coun 'muled, 's Shound day wink: that if it ast al all its action is not uccompanies by gastric Sensalen , in This Can irrelation alone is promune and Continues Will through ofociation with the organ primarily offer lea other hards und particularly the wiling surlem assum a diseased Condition; This Secondary tebutts give time to prinful sensations and other symp. long wincing the exclan- of general dere are or regular Unturnal fever; it also occasionally happens that the Adult is so semulable of its influence that Chole ru morbus is immediately induced and by the Es a pious dicharge of site, he mor bifu & new or literally warned grow the Somach before it now had lim to establish such form anent irrelation as would even halle extend is the which System; it likewin owen at least in Southern Catiludes that The Floren ach is so abbelled that all the symptoms above referred to as es. sulial to Chokra Infundeum are produced and



11

continue for many days, get the primary irrelation is so form and . That when the cause is totally iju. like the stomach has become quiet; and the whole ion has vanished. The arterial system assums that mode of action which gives rise to mat of shin periodical exambations, and combions, and all Mur symptoms constitutions automoral fever of Regular lyfu. These observations relation to the disease and its even as they affect adults we have offered thisfly for the pursion of being mon clearly under in the application of our views to that form of the diream most incident to Children, it is however true That wen among Children Mer sural forms of The disease do ou asionally occur but in Cholera In. of anteun distinctively to eather no regular febril. is distinctly marker, Though the action of the sanguir for our system is doubtless our anged and on this and its courts immediately depend forter issus. In 6 holira Infaulum the "iemole Cause in material form ving applied



in immediate Contact with The delical surface of a Homack unaccustomed to the action of powerful or diversified stimulants, produces great irritation and purhaps equal sensation, and from These through the extension sympathies of slow ach calreme defression or weak and irregular action of the arteries arises, and perhaps from This state of the arterial surline coulds the Coldness of the in . Tumitin; the frequent puting and purging and The desordered State of the sanginferous vefods sus. pena nutrition, while the continua and ince sea action of the absorbeds gives lise to thirst and Conduis to Estid emanation; The diminution of excitiment on the surface parlicularly of the extrem. ilies, produces an calra or dinary determination of ilord to the brain and on this defends the unusual degen of warmth on the forehead; all there symps tom Thus & omedia, and thus airmand, corrispona in intensity with the four of the sunder & aux, and strongth of existing sympathing; they vary in



degree from a transitory and allemost impure petite undesposition through different gradations of sure out protracted cases up to those violent attacks in which death in a few hours superouss, heme we are authorized to believe that unfavourable issues are not in every fatal & are produced in the same way, in all those cases which wentrale unfavourably within a few hours after the all ach, it is probable that from the influence which a diseased stomach exer over the sanguiferous system, the smaller upuls Cean to convey blood, the be sin naturally recies. ing a great proportion of this fluid in infra ey Now becomes burch arge & and a stight degree of apoplines easily suspends the action of the heart altready greatly infulled by association with a disorderied Flowark, It is however reasonable to suppose, that the cause may act so powerfully on the slomach as to distroy the femer tions of the heart in superiornally of the apopletic state, but This 2 arely happens, if ever it does, it is in The



very earlist stage before the arbies have have an oportunity to react; In a very large proportion of fatse Cares, in seed in allmost all I see. out days we down death takes jet one in wither of the about ways, but in consequence of some inflower matory who in the brain producing disorganization or ability and math of that part, or an effection Constitutions Hoy areephalus Internus, of this last affection there is a moderate degree @ supatable with life and under it the palicul lives for many mostly a or years the vasculus excilement which produce ed it having subside a, but Vulrules of the brain be ing occupied by a flund and The Cranium being Consequently a perfect plenum any Cause which induces an extra ordinary delermination of blood to the head must produce apopling and deaths, it therefore happens that palicula survive the violever of the first stage and & sutirum to live the in an emaceation state untill the return of the warm season when being subject to the influence



of the same came they die suddenly without giving the former signs of inauch oritime.

In all notracted cases an irreque iar lax allenas, The applied is subjects frequent vari. stions, and puting or casionally ou was, in explan ation of this we must be allowed to a deaner, that alimentary between Mr. brown and rational canal a strong sym the exists and that through this the brain in the beginning of the allack derives its sisean from the stom ain and being one diseased reacts whom the parts primarily affected, Thus by ruiprocal influence is hept up the disordered blake of These parts and their defendencies; In phase wills of adults pain in the hear and puting are Just flows get they both offen subside while the disease continues and countrally proses falal, in This case though food be taken it does not produce - healthy results, in like manner though in Choler a the pain in the max conformably to a law of the animal economy learn, and conse



"ently the nausea and comiting, and though in consequence of all this a strong sensation of hu nger should return of get healthy digestion does not take place for notwithstanding The sym. pathelic effects of sensation have vanished the apocacion of similation continues, him the replilious of the somach, arbility of the bowies, from sulation of food, and irregular lan in Chronic Cans; we cannot derry that authors have on dissection observed trans of inflammation in the Evals of the stomach and bowels, and it is possible that these appearances may arise directly from the action of the cause on those parts, the however is very rane and can' mour occur ex. cept where putting have been improfully no trained, it is more probable that these marks of inflammation, as well as the diseased state of the musentry, are altogether secondary and defund on the debility induced by the reaction of a diseased brain.



From all thise Considerations and from The dessections and observations on which they are founded for esteem it a legitimate inference. That death in cholera results cum diality from a discased state of the brain, and regulated by This im. portant fact we shall proceed to the More of prace As our treatment resolves they into the remedies suited to an early and into thom sein to to an advanced, and as thanges requir. ing a modification of practice as really occur, we dum it convenient to consider the disease as one consisting of a first, a second, and a Third Stage, The first Trave is there in which the blomach at the Commencement, a so powerfully who whow by the morbifu Cruze, that a state of unremoting depreprion suprepion is induced on the whole arbeital system, so that There is no opportunity for reaction or the ois a lergo to produce local inflammation, This base tions land for several wars, he pulse is obscure ou asion-



ally frequent, but oftener slow, the coldness of the extremeters invariable, the nausea constant, huking frequent, and anxiety great; here the palmes, and coldness of the surface, show that the blood having extended The surface occupies the heart and larger offels and that from preutiarders of infautite structure the brain is burchargea, the forehead is hot and The region of the heart warm, from this view of the first. Lage it is clear that our most important Indscation must be, to free the brain from its super abund and blood; to fulfill this, & opious general Hordelling I hould be prouply practised, outing Glaps Raps or luches should be applied to the company and warmth with stimulating frictions to The surfacy by the last means a quantity of blood will be in. viled to the skin and the brain will be proportion of ally relevous, our next Indication is to compon the Stomach and therefor prevent its sym. patholic influence from producing inflammato. ry action in the brain; this can be sown by the



application of Epispasties or signapisms to the epigastrie Ee gion, and by the exhibition of anodyrus, Then remedies will effectually suspend morbifer aponations till by appropriate steps we accomplish our third wander tion which is to expell the shaure from the lodestinat canal; This we should as by administring from one to there or four grains of Calonel every los or them hours till they operate aiding with East. ail or Vheedard if need. vary, in addition to its warment operation this preparation of mireury makes a counter impression on the parts to which it is applicar, and so affects The general system as to obvide local Congestions. In defence of our practice in this Magu, we have to a do ame, that Copious bloodletting

lage, we have to account man organis restaurant to far from inversing superfix present affects it, by unlocating the larger eights it mades them to higher a hand of their a solutions into the sonature one, and their a could to the effect of execution in removing the engagement of vital hands, and



the circumstance of this operations giving and the activity to the Sanguiferous system her - word mush as to exercise much circumspection in the refutition of auroways, test they be assumed where after reaction and inflammatory exists = "and in the brain have commenced."

The Second Thage is that in which the slowest and showest having totally capilled the carne it immediate offices begin to sussise. The name is as is much at all the profit is give the progress. The proteing is the progress in not to distribute, a faint febrit year afficient is not to distribute, a faint febrit year afficient is not to distribute, a faint febrit year afficient has to far given way that the bloodspie begin to read and and are inflammatory affiction is legisies and, and are inflammatory affiction is legisies and the disease this afficient progression way that the bloodspie begin to read the air as the disease among a dutty, but in the greate number of cares it is nothing men thauth acute stage of by drouphaly otherway



and usually contenting accordingly; Here it is shrious that our leading in aication is to shrow artical excitement in the brain, Consequently we have again to appear to the launt, Explaing Glaps, leches, and Calomission having by their con man Constants with impose some for the system, for the order con the wide each with an expension; previous to the word this however area while we are preparing for it by the other remeases with have thousand in these areas and to it cold application, should be these and

It is here perfect to observe that it frequent by happens that the remote cause does not in its first surpriseous art with sufficient four to incum them superfrom characterizing what in how called the first stage; in this event if the can be also shown for the constitution of parts with a buck a commonly exist in the stage too during his long to constitute a consequently the remains should be them but in mentioned.



The third stage is that in which all the symptoms after Continuing for some time have become very mile, the appetite returns and is often coracious, yet Mr Stute Continues emaciated, and our in two or thru weeks or as many mouths The suffers an aggrabation of the lan some times are ompanied by puting; These exacerbations are copil to see we de intemperate reptetions of the Homach, but the debilitation state of the digestion organs on which they defend is clearly derived from the Condution of the brain; in this stage that degree of effusion which is a outpatable with life and which constitutes Chronic Hy goes. rephalus has taken plan, and either from the un of rumains or from other favourable Circum. dances its farther progress is suspenden; from this form of the discan patients often recour and Sometimes without a remedy, but untill they do get well are at all times subject to die sud



duly whomen an extraordinary determinan tion to the had is in any way inauno; In them cases the remoting are those last mentioned but here They require to be persevered in longer, and to be pushed to a much greater extent, but this being allways the Consequence of a former stage should be invariably prevented by a territy resort to computent orner sution; indud in every stage or form of the aiream blood tilling the principal remay should be made to produce smille effects, otherwise it will do but titte good, great auxidy, name a, or Vomiting, should be brought on; so far, we believe that it has mon promoc unsucupful where the Sural operations have produced a few efforts to voint; used to this extent we have known it more than our to succeed view most hope less cases of from a year to sighten months dura tion and in which the unawation was extr = come; in them a healthy state of the storm ash



and bowels speedly sucualay the recouries were brish, the morbid existement in The brain was doubleft subdued, and the effused fluid com-. twatty absorbed; we are sinsible that very res. putable an atomists doubt the existance of absorts in the brain, but if the west of cares title then does not afford of their existance it at least Challings proof to the contray; in The wain have been forma many owners of fluid which accupied a span greater than any matural or ardinary vaccity in that organ, we therefore think the presence of absorbents Trongly implied; in every tage thick attention should be paid to dut, at tirst farinacious matter and as the Qan be a con is more advanced and the patient grows beller, some of the milour preparations of fresh should be give quintly given in small quantities, and reptetions of the Momach thoula · never be all owen; if the patient be too



young to use this aut its best Mourishment can be derived from the breast, and the use of every kind of acid, and vapua vege. table substance should be prohibited; after Sufficient deptition and evident amendment flaunch alone will suffice as an application to the shin and should mur be omited; the repetition of venesation, and of purging, must be regulation by the irrgury of symptoms and auration of the Ease; the same we mark is applicable to all other runding except the anoaynes which Ih onla more be repeated after the extreme depression is removed, except however that after copious depletion tenesmus or great irritation in The rectum, Should riquin The introduction of a modes rate ansaym per anum; after using the ditteting runders particularly venisation to a Satisfactory extent it will not be unprour to give tome to the Homach and bowels and Eistrain



the diarrhea, for the disordered state of there paris though it be secondary has an anfavourable influence on the Cerebral dis have . Therefore any of the astrongents usually resorted to in such cases will do, but the rem. ady to be most relieve upon is sulp Zine in This alone or Combined with sulph. Alum. They are most conveniently given in solution and I hould be repetition and Continue aus. ding to Rirumstanus, a mixture of mag. nesia and Thousant union mercenal qualities peculiarly suched to some came and properly admuistered our is man to ourt antaria and to niv or laration powers at aisertion; in a avan. ad Cans of the Third stay or Chronic forms, where The emaciation is great, and lan Considera ble, and where the proper defetting remedies have not bun used, ihr free un of puryains would be not only unsuchary but prejudicial, were copious and repealed iloudalling, frictions of



the surface, astringut, and itstims the head should be deferred on , and no drive some a second be administered at East by the month.

View and explanation to hastly delevered, they have ted to a practice the propriety of which

have led to a practice the propriety of which has been adopty a or firmed by a complement on a personnel; they are also problem by distributions we must be a poster much and offerd much support or our main position that has assessed as not austray the immediately by its effect on the assessing the immediately by its effect on the assessing to memorialize by its effect on the assessing to be in a more than a more than or hydroughpalu action or the train, there disselvers for inhome to act and the train, then disselvers for inhome to act authorize us to believe, that when, after

a severe attack of the olive of which he polish stall have died at an early stage, an examination is made, no traces of disease in the off dies truitive will be found in either the thoroses or



at at ominal viscera, but that in the brain will be found an ansural accumulation of blood and are apparent multiplication of its oppole, and had when often the patient dies and is examined them from the patient dies then to some morbid abbrevament in the administration to some morbid abbrevament in the administration of the praise varying in quantity from a to sin one, and in Carro of this beach to six ones, and in Carro of this was in the pass suddenly who each or if it should have also affected as above well there will also appear an accumulation of blood of above.

Whether the specific nature of hydrightalic excitement a suite of the opi. The inclammatory or not we think it unnerespang in a partical point of view to externism it is clearly that species of martia excitement which may be subduced by object.



ling remedies; a disordered, a lumba, and Sometimes painful state of the splen, and liver, are among the most Common Consequences of intermittent and remettent fours, and if then affections are inflammatory in Thur nature or origin, we may most reasonably presum that Hoy droughalus is also, they are all symptomatic or secondary, they all prome in. differently from different forms of a denan in all its shapes efrenteally the same, and in all produced by The Same Quin; in gi. ving the history of a will marked can of Hydroupholus Internes, authors enumerate as its precursors, all the symptoms escential to idiopathie fever, and from the order in which They occur they doubtless have Thur beginning in The atimentary canal and Drinend in The brain ; " The reason why These congestions or disorders when seated in the splew or liver, do not produce death as often as when lear



ted in the brain, is that an unimpaired state of the functions of those organs is less expential to According to limited observation we believe that the aftilude of their several parts to arrive a martia Condition from general febrile disean, is during infancy, greated in the brain, during adolescence, greatest in the oplien, and in mature age greatest in the liver, hime the infant will most frequently have as the consequence of fever hydrouphalus, the youth auenlargement of the Splew, and The adult Chronic Hepatitis; Then local durangements appear to a originate from a common caun and are perhaps similar in naturn; and all This on estern strongly consboration of our fundamin. tat position that a discand state of the brain is the immediate caun of death in Cholera Infantum

